Drainage Area A

Drainage Area A Land Cover (acres)

	A soils	B Soils	C Soils	D Soils	Totals
Forest/Open Space (acres) -- undisturbed, protected forest/open space or reforested land	0.00	0.00	0.28	0.00	0.28
Managed Turf (acres) -- disturbed, graded for yards or other turf to be mowed/managed	0.00	0.00	0.73	0.00	0.73
Impervious Cover (acres)	0.00	0.00	1.15	0.00	1.15
				Total	2.16

Apply Runoff Reduction Practices to Reduce Treatment Volume & Post-Development Load in Drainage Area A

Credit	Unit	Description of Credit	Credit	Credit Area (acres) (cf for Credit 2.f)	Volume from Upstream RR Practice (cf)	Runoff Reduction (cf)	Remaining Runoff Volume (cf)	Phosphorus Efficiency (%)	Phosphorus Load from Upstream RR Practices (lbs)	Untreated Phosphorus Load to Practice (lbs.)	Phosphorus Removed By Practice (lbs.)	Remaining Phosphorus Load (lbs.)	Downstream Treatment to be Employed
1. Green Roof													
1.a. Green Roof #1	acres of green roof	45% runoff volume reduction	0.45	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
1.b. Green Roof #2	acres of green roof	60% runoff volume reduction	0.60		0	0	0	0.00	0.00	0.00	0.00	0.00	
2. Impervious Surface Disconnection													
2.a. Simple Disconnection to A/B Soils	impervious acres disconnected	50% runoff volume reduction for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
2.b. Simple Disconnection to C/D Soils	impervious acres disconnected	25% runoff volume reduction for treated area	0.25	0.18	0	155	466	0.00	0.00	0.39	0.10	0.29	13.a. Wet Pond #1
2.c. To Soil Amended Filter Path as per specifications (existing C/D soils)	impervious acres disconnected	50% runoff volume reduction for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
2.d. To Rain Garden, Dry Well, or French Drain in A/B Soils	impervious acres disconnected	75% runoff volume reduction for treated area	0.75	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
2.e. To Rain Garden, Dry Well, or French Drain in C/D Soils	impervious acres disconnected	50% runoff volume reduction for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
2.f. To Rain Barrel, Rain Tank, or Cistern	cubic feet of water captured	75% of volume captured	0.75	653.00	0	490	163	0.00	0.00	0.41	0.31	0.10	
3. Permeable Pavement													
3.a. A/B Soils, Infiltration Design	acres of pervious parking	75% runoff volume reduction	0.75	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
	upgradient non-pervious parking draining to pervious	50% runoff volume reducation	0.50	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
3.b. C/D Soils, With Underdrain	acres of pervious parking	45% runoff volume reduction	0.45	0.16	0	253	309	25.00	0.00	0.35	0.21	0.15	4.b. Grass Channels, C/D Soils
	upgradient non-pervious parking draining to pervious	20% runoff volume reduction	0.20	0.40	0	276	1104	25.00	0.00	0.87	0.35	0.52	4.b. Grass Channels, C/D Soils
4. Grass Channel													
4.a. A/B Soils OR C/D Soils with Soil Amendments as per specifications	impervious acres draining to grass channels	20% runoff volume reduction	0.20	0.00	0	0	0	15.00	0.00	0.00	0.00	0.00	
	turf acres draining to grass	20% runoff volume reduction	0.20	0.00	0	0	0	15.00	0.00	0.00	0.00	0.00	
4.b. C/D Soils	impervious acres draining to grass channels	10% runoff volume reduction	0.10	0.58	1413	341	3072	15.00	0.66	1.26	0.45	1.47	13.a. Wet Pond #1
	turf acres draining to grass	10% runoff volume reduction	0.10	0.73	0	58	525	15.00	0.00	0.37	0.09	0.28	13.a. Wet Pond #1
5. Dry Swale													
5.a. Dry Swale #1	impervious acres draining to dry swale	40% runoff volume reduction	0.40	0.00	0	0	0	20.00	0.00	0.00	0.00	0.00	
	turf acres draining to dry swale	40% runoff volume reduction	0.40	0.00	0	0	0	20.00	0.00	0.00	0.00	0.00	
5.b. Dry Swale #2	impervious acres draining to dry swale	80% runoff volume reduction	0.80	0.00	0	0	0	40.00	0.00	0.00	0.00	0.00	
	turf acres draining to dry swale	80% runoff volume reduction	0.80	0.00	0	0	0	40.00	0.00	0.00	0.00	0.00	
6. Bioretention													
6.a. Bioretention #1	impervious acres draining to bioretention	40% runoff volume reduction	0.40	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
	turf acres draining to	40% runoff volume reduction	0.40	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
6.b. Bioretention #2	impervious acres draining to bioretention	80% runoff volume reduction	0.80	0.00	0	0	0	50.00	0.00	0.00	0.00	0.00	
	turf acres draining to	80% runoff volume reduction	0.80	0.00	0	0	0	50.00	0.00	0.00	0.00	0.00	
7. Infiltration													
7.a. Infiltration #1	impervious acres draining to infiltration	50% runoff volume reduction	0.50	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
	turf acres draining to infiltration	50% runoff volume reduction	0.50	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
7.b. Infiltration #2	impervious acres draining to infiltration	90% runoff volume reduction	0.90	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
	turf acres draining to infiltration	90% runoff volume reduction	0.90	0.00	0	0	0	25.00	0.00	0.00	0.00	0.00	
8. Extended Detention Pond													
8.a. ED #1	impervious acres draining to	0% runoff volume reduction	0.00	0.00	0	0	0	15.00	0.00	0.00	0.00	0.00	
	turf acres draining to ED	0% runoff volume reduction	0.00	0.00	0	0	0	15.00	0.00	0.00	0.00	0.00	
8.b. ED #2	impervious acres draining to	15% runoff volume reduction	0.15	0.00	0	0	0	15.00	0.00	0.00	0.00	0.00	
	turf acres draining to ED	15% runoff volume reduction	0.15	0.00	0	0	0	15.00	0.00	0.00	0.00	0.00	
9. Sheetflow to Conservation Area or Filter Strip													
9.a. Sheetflow to Conservation Area with A/B Soils	impervious acres draining to conserved open space	75% runoff volume reduction for treated area	0.75	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
	turf acres draining to conserved open space	75% runoff volume reduction for treated area	0.75	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
9.b. Sheetflow to Conservation Area with C/D Soils	impervious acres draining to conserved open space	50% runoff volume reduction for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
	turf acres draining to conserved open space	50% runoff reduction volume for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
9.c. Sheetflow to Vegetated Filter Strip in A/B Soils or Amended C/D Soils	impervious acres draining to conserved open space	50% runoff volume reduction for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	
	turf acres draining to conserved open space	50% runoff reduction volume for treated area	0.50	0.00	0	0	0	0.00	0.00	0.00	0.00	0.00	

TOTAL PHOSPHOROUS REMOVAL REQUIRED (lb/yr)	2.25
TOTAL RUNOFF REDUCTION (cf)	1,573
PHOSPHORUS REMOVAL (lb/yr)	1.50
ADJUSTED POST-DEVELOPMENT PHOSPHOROUS LOAD (TP) (lb/yr)	1.4
ADDITIONAL PHOSPHOROUS LOAD REDUCTION NEEDED (LB/YEAR) BASED ON 0.28 LB/AC/YEAR LOADING RATE TARGET	0.76

Apply Practices that Remove Pollutants but Do Not Reduce Runoff Volume

Practice	Unit	Area (excluding areas treated by upstream practices)	Phosphorus Efficiency (%)	Runoff from Upstream RR Practices (cf)	Phosphorus Load from Upstream RR Practices (lbs)	Untreated Phosphorus Load to Practice (lbs.)	Phosphorus Removed By Practice (lbs.)	Remaining Phosphorus Load (lbs.)	Downstream Treatment to be Employed
10. Wet Swale (Coastal Plain)									
	impervious acres draining to wet swale	0.00	20.00	0.00	0.00	0.00	0.00	0.00	
10.a. Wet Swale #1	turf acres draining to wet swale	0.00	20.00	0.00	0.00	0.00	0.00	0.00	
	impervious acres draining to wet swale	0.00	40.00	0.00	0.00	0.00	0.00	0.00	
10.b. Wet Swale #2	turf acres draining to wet swale	0.00	40.00	0.00	0.00	0.00	0.00	0.00	
11. Filtering Practices									
	impervious acres draining to	0.00	60.00	0.00	0.00	0.00	0.00	0.00	
11.a.Filtering Practice 1	turf acres draining to filter	0.00	60.00	0.00	0.00	0.00	0.00	0.00	
	impervious acres draining to	0.00	65.00	0.00	0.00	0.00	0.00	0.00	
11.b. Filtering Practice 2	turf acres draining to filter	0.00	65.00	0.00	0.00	0.00	0.00	0.00	
12. Constructed Wetland									
	impervious acres draining to	0.00	50.00	0.00	0.00	0.00	0.00	0.00	

12.a.Constructed Wetland 1	turf acres draining to wetland	0.00	50.00	0.00	0.00	0.00	0.00	0.00							
	impervious acres draining to	0.00	75.00	0.00	0.00	0.00	0.00	0.00							
12.b. Constructed Wetland 2	turf acres draining to wetland	0.00	75.00	0.00	0.00	0.00	0.00	0.00							
13. Wet Ponds															
	impervious acres draining to	0.00	50.00	3537.07	1.76	0.00	0.88	0.88	None						
13.a. Wet Pond 1	turf acres draining to wet pond	0.00	50.00	524.68	0.28	0.00	0.14	0.14	None						
	impervious acres draining to	0.00	75.00	0.00	0.00	0.00	0.00	0.00							
13.b. Wet Pond 2	turf acres draining to wet pond	0.00	75.00	0.00	0.00	0.00	0.00	0.00							
			PHOSPHORUS REMOVAL BY PRACTICES THAT DO NOT REDUCE RUNOFF VOLUME				1.02								
			TOTAL PHOSPHORUS REMOVAL IN DRAINAGE AREA A(lb/yr)				2.52								
			ADJUSTED POST-DEVELOPMENT PHOSPHOROUS LOAD (TP) (lb/yr)				0.3								
ADDITIONAL PHOSPHOROUS LOAD REDUCTION NEEDED (LB/YEAR) BASED ON 0.28 LB/AC/YEAR LOADING RATE TARGET							CONGRATULATIONS! YOU HAVE ACHIEVED THE REDUCTION TARGET BY 0.3 LB/YEAR!!								